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# TECHNICAL MEMORANDUM

(TM Series)

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SAGE Unique-to-Site Environmental  
Data and Equipment Assignments  
Minot ADS

by

D. M. McDaniel

22 March 1963 TISIA A

SYSTEM  
DEVELOPMENT  
CORPORATION  
2500 COLORADO AVE.  
SANTA MONICA  
CALIFORNIA

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### INTRODUCTION

This volume of the TM(ADC)820 Series contains the official SAGE unique-to-site environmental data and equipment assignments which are to be used in adapting Model 9 computer programs and in Simplex Data Distribution Unit terminal assignments for the Minot Air Defense Sector. Certain adaptation data such as facility locations, characteristics, and other related data which apply to all sectors, is presented in volumes 3 through 7 of this TM series. The reader is referred to Volume 0 of this series for a detailed list of contents of all volumes.

SAGE Unique-to-Site Equipment Review (USER) Committee signatures appear on page 5 of this document, with initials indicating approval, concurrence or review, as appropriate.

ADCM 55-32 currently defines adaptation data as being of two categories: 1) ADC Controlled Data; and 2) Field Controlled Data. A portion of this document is ADC Controlled Data and therefore constitutes a reason for the ADC Foreword page and NORAD Preface page authorizing the use of this data. However, since this document also contains Field Controlled Data, e.g.: "Times-2" display data; Manual Input data; etc, it is noted here that the aforementioned military preface and foreword page do not in any way usurp the position of the Division and Sector Commanders as delegated in ADCM 55-32, but instead reflect recognition of data forwarded by those Commanders to SDC.

Discrepancies noticed in any part of this document by SDC on-site programming teams should be forwarded to the authors utilizing current established procedures. Revisions to this document will be published as data changes occur or when practical. Changes to previous data will be indicated by use of a "▷" next to the data change.

### SERIES CONTENTS

VOLUME	0	Series Description
VOLUME	1	Adaptation I/O Limits and Drum Channel Requirements
VOLUME	2	Sector Environment Summaries
VOLUME	3	Sector and Region Positional Data
VOLUME	4	Radar Adaptation Data
VOLUME	5	Voice and Data-Link Communications Adaptation Data
VOLUME	6	Airbase and BOMARC Squadron Adaptation Data
VOLUME	7	ADA Site Adaptation Data
VOLUME	10	Unified Adaptation Guide for Region and Sector Data
VOLUMES through	250 351	SAGE Unique-to-Site Environmental Data and Equipment Assignments

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LIST OF EFFECTIVE PAGES

This page is a reference of changes to this volume and contains a complete index of all effective pages.

PAGE NO	CHANGE LETTER	PUBLICATION DATE	PAGE NO	CHANGE LETTER	PUBLICATION DATE
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5 - 7	Basic	7 Nov 62			
8	A	22 Mar 63			
10 - 16	Basic	7 Nov 62			
17	A	22 Mar 63			

7 NOVEMBER 1962

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TM(ADC)820/293/00

## 1.0 SECTOR POSITIONAL DATA

SECTOR - MINOT

REGION - 29TH

AMP NO. 004

### 1.1 SECTOR PROGRAM BOUNDARIES

#### 1.1.1 MODE I BOUNDARY

REF	LATITUDE	LONGITUDE
01	055 00 00	100 00 00
02	046 30 00	100 00 00
03	043 30 00	101 30 00
04	043 45 00	105 00 00
05	043 50 00	107 45 00
06	045 20 00	107 45 00
07	055 00 00	107 45 00
08	OPEN TO NORTH	

#### 1.1.2 MODE II BOUNDARIES

REF	MODE IIA - GRAND FORKS	
	LATITUDE	LONGITUDE
01	055 00 00	098 00 00
02	043 30 00	098 00 00
03	043 30 00	100 30 00
04	043 30 00	101 30 00
05	043 45 00	105 00 00
06	043 50 00	107 45 00
07	045 20 00	107 45 00
08	055 00 00	107 45 00
09	OPEN TO NORTH	

REF	MODE IIB - GREAT FALLS	
	LATITUDE	LONGITUDE
01	055 00 00	100 00 00
02	046 30 00	100 00 00
03	043 30 00	101 30 00
04	043 45 00	105 00 00
05	043 50 00	107 45 00
06	045 20 00	107 45 00
07	045 20 00	113 00 00
08	055 00 00	113 00 00
09	OPEN TO NORTH	

### 1.2 MAJOR WORLD GEOREFS SURROUNDING XI AREA

SWITCH CODE	GEOREF	SWITCH CODE	GEOREF	SWITCH CODE	GEOREF
1	EJ	4	FJ	7	GJ
2	EK	5	FK	8	GK
3	EL	6	FL	9	GL

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### 1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS

AUTOMATIC SECTOR NAME	AUTO LTR. DSG.	SECTOR REF.NO. (EQ.ID.)	D/L TIED	AMP NO.	SWITCH CODE	MAN LTR. DSG.	MANUAL SECTOR NAME **
CHICAGO	K	10		007	0 *		
					1		
					2		
					3	LV	DENVER, COLO
SIoux CITY	L	4	YES	022	4		
RENO	X	5	YES	016	5		
DULUTH	U	5		010	6		
GREAT FALLS	A	7	YES	020	7		
GRAND FORKS	T	8	YES	011	8		
SPOKANE	Y	9		015	9		

\*SWITCH NO. 0 ON 10PB MODULES AND SWITCH NO. 10 ON 15PB MODULES

\*\*ONLY MCC'S WITH DC TTY OUTPUT ARE INDICATED

1.4 LAND SEA LINES - NONE

### 1.5 AIR DEFENSE IDENTIFICATION ZONE - ADIZ/CADIZ

REF		LATITUDE	LONGITUDE
01	CADIZ	049 00 00	113 00 00
02		049 00 00	100 00 00
03		050 00 00	098 00 00

1.6 SECTOR MINIMUM ENROUTE ALTITUDE. 13000 FEET

### 1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER

LATITUDE	LONGITUDE
048 25 00	106 31 00

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(last page)

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# 6.6 LATERAL-TELL ROUTING TABLE - FIRST STOP

SECTOR DSG	SECTOR REFERENCE NUMBER				
	1ST ROUTE	2ND ROUTE	3RD ROUTE	4TH ROUTE	5TH ROUTE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10	8	4			
11	8				
12					
13					
14					
15	7	5			
16	5				
17					
18					
19					
20	7				
21					
22	4				
23					
24					
25					
26					
27					
28					
29					
30					
31					

# 7.0 MANUAL INPUTS

SSR NO.	NAME/IDENT	TYPE	55-20 DESIG	SSR NO.	NAME/IDENT	TYPE	55-20 DESIG
01	29TH CC	MCC	LT	10			
02	C-36	MDC	AQ	11			
03	MSS-1	MDC	LV	12			
04	BIRD	MCL	HB	13			
05	CRANBERRY PORT.	MCL	HC	14			
06	DAWSON CREEK	MCL	HD	15			
07	STONEY MT	MCL	HS	16			
08				17			



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DISTRIBUTION LIST

PIR-A #4 WECO Group A - New York (5 and 1 vellum)  
WECO - Santa Monica (room 3311B)

PIR-A #5 IBM - Kingston (6 and 1 vellum)  
IBM - Santa Monica (room 3311A)

PIR-A #31 ADC-CCDSO (3)  
AD4SY

PIR-A #36 ADC-DIV SEC HQ  
29th DIV HQ  
MIADS READS  
GRADS  
SCADS  
GFADS

PIR-A #41 ADC HQ and NORAD  
ADOAC--EE (Mr. R. W. Carvill)  
ADOOP-E

PIR-A #48 HQ ESD  
ESSGL 416L SPO

APASTO

AD8CP-E  
AD8CP-T

RCAF

Air Officer Commanding, ADC HQ (3)  
RCAF Station  
St. Hubert, Quebec, Canada

F/Lt G. R. Todd, RCAF  
Santa Monica, California

Chief of Air Staff AF HQ, ATTN: DROP/RDP 3  
Ottawa, Ontario, Canada

SYSTEM DEVELOPMENT CORPORATION

USG Sec 2 (3) 4345  
USG DAS (6) 4365  
PPB SSG System Data (2) 20157  
STB SSG Run Designer 4770

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SYSTEM DEVELOPMENT CORPORATION (cont.)

FIB Group Head - Grandview

FIB Team Heads - Malmstrom  
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                  Grand Forks  
                  Minot

FIB Team Head - Stead

FIB HQ - 24191

PTG Control Unit - Phoenix

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System Development Corporation,  
Santa Monica, California  
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DATA AND EQUIPMENT ASSIGNMENTS  
MINOT ADS.  
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